

I Claim:

(1)

A system comprising:

an electronic device;

- 5 an enclosure which is enabled to receive and enclose said electronic device, said enclosure electrically connected to said electronic device;
- wherein said enclosure confers to said electronic device properties including intrinsic safety, weatherproofing, or ruggedization.

(2)

- 10 The system of claim 1 wherein said electronic device is selected from the group consisting of a computer and communication device.

(3)

A method comprising the steps of:

inserting an electronic device into an enclosure;

- 15 connecting electrically said device and said enclosure;
- sealing said enclosure around said device wherein said sealing enables said electronic device to have the properties of intrinsic safety, weatherproofing, or ruggedization.

(4)

A system for providing computer access to remote workers, the system comprising:

- 20 a computer module for providing processing means;
- an enclosure for enclosing and electrically interconnecting with said module, wherein said enclosure is designed to be Intrinsically safe according to Class 1 Division 1, Division 2, or mixtures thereof of the U.S. Electrical Code;

a power supply for providing electrical power for electrical components in said module and said enclosure;

sealing means for selectively sealing the enclosure when said module has been interconnected with said enclosure.

5 (5)

The system of claim 4 wherein said enclosure comprises communication means.

(6)

The system of claim 4 wherein said enclosure has properties comprised of water tightness, non-corrosiveness, air tightness, shock resistance, and intrinsic safety.

10 (7)

The system of claim 5 wherein said enclosure has connection means for external devices, wherein said connection means does not reduce the efficacy of the properties of the enclosure.

(8)

15 The system of claim 4 wherein said communication means consists of wired communication means, wireless communication means, and mixtures thereof.

(9)

The system of claim 7 wherein said external devices comprise display devices, power supply devices, activation devices, sensor devices, transducer devices and communication
20 devices.

(10)

The system of claim 4 wherein said computer is a wearable computer and further has securing means for securing said enclosure to the body of a wearer of the system.

(11)

A computer system for use in environments containing ambient flammable, combustible and explosive materials, the system comprising:

5 a computer module;

an enclosure which, when mated with said computer module enables said computer module as to be considered intrinsically safe according to class 1, division 1, division 2 or mixtures thereof of the U.S. Electrical Code;

a physical interconnection means for interconnecting said module and said enclosure;

10 an electrical interconnection means for interconnecting said module and said enclosure;

an access door on said enclosure for accessing at least one receiving bay;

a sealing means for sealing said door when it is closed;

a power supply to electrical components in said enclosure and said module;

a display screen integral to said enclosure, said display screen being responsive to touch

15 or stylus input and said display screen capable of displaying a functional keyboard on said screen, said keyboard capable of affecting textual input.

(12)

The system of claim 11 wherein said enclosure comprises communication means.

(13)

20 The system of claim 11 wherein said enclosure has properties comprised of water tightness, non-corrosiveness, air tightness, shock resistance, and intrinsic safety.

(14)

The system of claim 11 wherein said enclosure has connection means for external devices, wherein said connection means does not reduce the efficacy of the properties of the enclosure.

(15)

5 The system of claim 11 wherein said communication means consists of wired communication means, wireless communication means, and mixtures thereof.

(16)

The system of claim 14 wherein said external devices comprise display devices, power supply devices, activation devices, sensor devices, transducer devices and communication
10 devices.

(17)

The system of claim 11 wherein said display screen and enclosure have means to be activated both in a hands free and a manual manner.

15 (18)

The system of claim 11 wherein said system has both audio and visual means to power down and control said system.

(19)

The system of claim 11 wherein said enclosure has ports for connection of peripheral
20 devices thereto.

(20)

A system for providing computer access to remote workers, the system comprising:
a computer module for providing processing means;

an enclosure for enclosing and electrically interconnecting with said module, wherein said enclosure has properties comprised of water tightness, non-corrosiveness, air tightness, or shock resistance;

a power supply for providing electrical power for electrical components in said module
5 and said enclosure;

sealing means for selectively sealing the enclosure when said module has been interconnected with said enclosure.

(21)

The system of claim 20 wherein said enclosure comprises communication means.

10 (22)

The system of claim 20 wherein said enclosure has connection means for external devices, wherein said connection means does not reduce the efficacy of the properties of the enclosure.

(23)

15 The system of claim 20 wherein said communication means consists of wired communication means, wireless communication means, and mixtures thereof.

(24)

The system of claim 20 wherein said computer is a wearable computer and further has securing means for securing said enclosure to the body of a wearer of the system.

20 (25)

A system comprising:

a electronics module;

an enclosure for enclosing and electrically interconnecting with said module, wherein
said enclosure has properties comprised of water tightness, non-corrosiveness, air
tightness, intrinsic safety, or shock resistance;

a power supply for providing electrical power for electrical components in said module
5 and said enclosure;

sealing means for selectively sealing the enclosure when said module has been
interconnected with said enclosure.

(26)

The system of claim 25 wherein said electronics module comprises a computer.

10

(27)

The system of claim 25 wherein said electronics module comprises a communication
device.